**7th Edition (2020) Florida Building Code - Energy Conservation**

**Commercial Provisions**

**Chapter 4 [CE] COMMERCIAL ENERGY EFFICIENCY**

Revise Table C403.2.3(2) to read as follows:

**TABLE C403.2.3(2)**

**MINIMUM EFFICIENCY REQUIREMENTS: ELECTRICALLY OPERATED UNITARY AND APPLIED HEAT PUMPSc, d**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **EQUIPMENT TYPE** | **SIZE CATEGORY** | **HEATING SECTION TYPE** | **SUBCATEGORY OR RATING CONDITION** | **MINIMUM EFFICIENCY** | **TEST PROCEDUREa** |
| Air cooled (cooling mode) | < 65,000 Btu/hb | All | Split System, single phaseb | 14.0 SEER  before 1/1/2023  14.3 SEER2  after 1/1/2023 | ~~AHRI 210/240~~  AHRI 210/240 – 2017  before 1/1/2023  AHRI 210/240 – 2023  after 1/1/2023 |
| Single Package, single phaseb | 14.0 SEER  before 1/1/2023  13.4 SEER2  after 1/1/2023 |
| Through-the-wall, air cooled |  30,000 Btu/hb | All | Split System, single phaseb | 12.0 SEER before 1/1/2023  11.9 SEER2  after 1/1/2023 |
| Single Package, single phaseb | 12.0 SEER  before 1/1/2023  11.9 SEER2  after 1/1/2023 |
| Single-duct  high-velocity air cooled | < 65,000 Btu/hb | All | Split System, single phaseb | 12.0 SEER  before 1/1/2023  12.0 SEER2  after 1/1/2023 |
| Air cooled (cooling mode) |  65,000 Btu/h  and  < 135,000 Btu/h | Electric Resistance (or None) | Split System and Single Package | 11.0 EER 12 IEER | AHRI 340/360 |
| All other | 10.8 EER 11.8IEER |
|  135,000 Btu/h  and  < 240,000 Btu/h | Electric Resistance (or None) | 10.6 EER 11.6 IEER |
| All other | 10.4 EER 11.4 IEER |
|  240,000 Btu/h | Electric Resistance (or None) | 9.5 EER 10.6 IEER |
| All other | 9.3 EER 10.4 IEER |

(continued)

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**TABLE C403.2.3(2) —continued**

**MINIMUM EFFICIENCY REQUIREMENTS: ELECTRICALLY OPERATED UNITARY AND APPLIED HEAT PUMPS**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **EQUIPMENT TYPE** | **SIZE CATEGORY** | **HEATING SECTION TYPE** | **SUBCATEGORY OR RATING CONDITION** | **MINIMUM EFFICIENCY** | **TEST PROCEDUREa** |
| Water to Air: Water Loop (cooling mode) | < 17,000 Btu/h | All | 86oF entering water | 12.2 EER | ISO 13256-1 |
|  17,000 Btu/h and  < 65,000 Btu/h | All | 86oF entering water | 13.0 EER |
|  65,000 Btu/h and  < 135,000 Btu/h | All | 86oF entering water | 13.0 EER |
| Water to Air: Ground Water (cooling mode) | < 135,000 Btu/h | All | 59oF entering water | 18.0 EER | ISO 13256-1 |
| Brine to Air: Ground Loop (cooling mode) | < 135,000 Btu/h | All | 77oF entering water | 14.1 EER | ISO 13256-1 |
| Water to Water: Water Loop (cooling mode) | < 135,000 Btu/h | All | 86oF entering water | 10.6 EER | ISO 13256-2 |
| Water to Water: Ground Water (cooling mode) | < 135,000 Btu/h | All | 59oF entering water | 16.3 EER |
| Brine to Water: Ground Loop (cooling mode) | < 135,000 Btu/h | All | 77oF entering fluid | 12.1 EER |

**COMMERCIAL ENERGY EFFICIENCY**

**TABLE C403.2.3(2)—continued MINIMUM EFFICIENCY REQUIREMENTS:**

**ELECTRICALLY OPERATED UNITARY AND APPLIED HEAT PUMPS**c, d

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **EQUIPMENT TYPE** | **SIZE CATEGORY** | **HEATING SECTION TYPE** | **SUBCATEGORY OR RATING CONDITION** | **MINIMUM EFFICIENCY** | **TEST PROCEDUREa** |
| Air cooled (heating mode) | < 65,000 Btu/hb | — | Split System, single phaseb | 8.2 HSPF  before 1/1/2023  7.5 HSPF2  after 1/1/2023 | ~~AHRI 210/240~~  AHRI 210/240 – 2017  before 1/1/2023  AHRI 210/240 – 2023  after 1/1/2023 |
| — | Single Package, single phaseb | 8.0 HSPF  before 1/1/2023  6.7 HSPF2  after 1/1/2023 |
| Through-the-wall,  (air cooled, heating mode) |  30,000 Btu/hb (cooling capacity) | — | Split System, single phaseb | 7.4 HSPF  before 1/1/2023  6.3 HSPF2  after 1/1/2023 |
| — | Single Package, three phase and applications outside US single phaseb | 7.4 HSPF  before 1/1/2023  6.3 HSPF2  after 1/1/2023 |
| Small-duct high velocity (air cooled, heating mode) | < 65,000 Btu/hb | — | Split System, three phase and applications outside US single phaseb | 7.2 HSPF  before 1/1/2023  6.1 HSPF2  after 1/1/2023 |
| Air cooled (heating mode) |  65,000 Btu/h and  < 135,000 Btu/h (cooling capacity) | — | 47ºF db/43ºF wb outdoor air | 3.3 COPH | AHRI 340/360 |
| 17ºF db/15ºF wb outdoor air | 2.25 COP |
|  135,000 Btu/h (cooling capacity) | — | 47ºF db/43ºF wb outdoor air | 3.2 COPH |
| 17ºF db/15ºF wb outdoor air | 2.05 COPH |
|  | — |  |  |
|  |  |
| Water to Air: Water Loop (heating mode) | < 135,000 Btu/h (cooling capacity) | — | 68°F entering water | 4.3 COPH | ISO 13256-1 |
| Water to Air: Ground Water (heating mode) | < 135,000 Btu/h (cooling capacity) | — | 50°F entering water | 3.7 COPH |
| Brine to Air: Ground Loop (heating mode) | < 135,000 Btu/h (cooling capacity) | — | 32°F entering fluid | 3.2 COP |
| Water to Water: Water Loop (heating mode) | < 135,000 Btu/h (cooling capacity) | — | 68°F entering water | 3.7 COP | ISO 13256-2 |
| Water to Water: Ground Water (heating mode) | < 135,000 Btu/h (cooling capacity) | — | 50°F entering water | 3.1 COP |
| Brine to Water: Ground Loop (heating mode) | < 135,000 Btu/h (cooling capacity) | — | 32°F entering fluid | 2.5 COP |

For SI: 1 British thermal unit per hour = 0.2931 W, °C = [(°F) - 32]/1.8.

1. Chapter 6 contains a complete specification of the referenced test procedure, including the reference year version of the test procedure.
2. Single-phase, US air-cooled air conditioners less than 65,000 Btu/h are regulated ~~by NAECA~~as consumer products by the US Department of Energy Code of Federal Regulations DOE 10 CFR 430. SEER and SEER2 values for single-phase products are set by the US Department of Energy. ~~SEER values are those set by NAECA.~~
3. DOE 10 CFR 430 Subpart B Appendix M1 includes the test procedure updates effective 1/1/2023 that will be incorporated in AHRI 210/240 – 2023.

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